

Morbidity and Mortality

Weekly
Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

Prepared by the

COMMUNICABLE DISEASE CENTER

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ATLANTA, GEORGIA 30333

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED FEBRUARY 1, 1964

CLAM-ASSOCIATED HEPATITIS - CONNECTICUT

An outbreak of infectious hepatitis apparently transmitted through raw clams has occurred during the past two months in South Central Connecticut. The source of the clams has been determined to be either Connecticut or Rhode Island; investigations are still in progress.

Since October 1, 69 cases of infectious hepatitis are known to have occurred in South Central Connecticut. Fifty-seven cases have been investigated to date. The majority have occurred since December 1. Of the total, 52 (91 percent) have been among adults.

Thirty-eight of the 57 cases ingested raw clams during the 10 to 60 days preceding onset. The peak of the epidemic among raw clam consumers appears to have been reached in the week ending January 11 (see figure, page 38).

Intensive investigations in Rhode Island and along the eastern coast of Connecticut have thus far revealed only 2 cases associated with the consumption of raw clams.

AGE DISTRIBUTION OF CASES

Age	Clam Associated Cases	Non-clam Associated Cases
0-9	0	2
10-19	2	2
20-29	14	5
30-39	7	7
40-49	14	4
50-59	1	0
Total	38	19

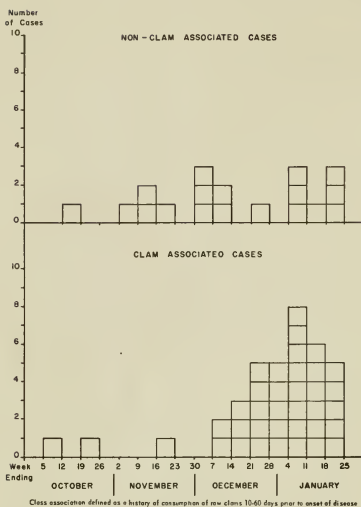
Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	5th Week Ended		Median 1959 - 1963	Cumulative, First 5 Weeks		
	February 1, 1964	February 2, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis	18	25	---	133	130	---
Brucellosis	8	4	10	26	22	40
Diphtheria	4	9	22	21	31	107
Encephalitis, primary infectious ..	12	26	---	86	87	---
Encephalitis, post-infectious	21		---	71		---
Hepatitis, infectious including						
serum hepatitis	927	1,225	1,225	4,371	5,321	5,321
Measles	6,470	9,346	10,166	27,457	39,366	41,627
Meningococcal infections	60	65	57	250	267	269
Polio myelitis, Total	-	4	13	3	19	54
Paralytic	-	3	6	2	16	29
Nonparalytic	-	-	---	1	2	---
Unspecified	-	1	---	-	1	---
Streptococcal Sore Throat and						
Scarlet fever	10,097	9,098	---	43,855	42,114	---
Tetanus	4	1	---	24	21	---
Tularemia	3	5	---	39	21	---
Typhoid fever	8	4	9	26	25	36
Rabies in Animals	74	54	73	318	267	301

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	-	Psittacosis:	1
Botulism:	-	Rabies in Man:	-
Leptospirosis: Tenn. - 1	3	Smallpox:	-
Malaria: Ill. - 1, N.C. - 3, Va. - 1, Vt. - 1	12	Typhus:	-
Plague:	-	Murine:	-
		Rky Mt. Spotted:	3

CASES OF HEPATITIS BY WEEK OF ONSET



The suspect clams ingested by the cases were obtained in one or more of 24 restaurants or fish markets in the greater New Haven-Bridgeport area. The clams are believed to have been harvested in Rhode Island or Connecticut waters but the source has not yet been identified. Studies are still in progress.

(Reported by James C. Hart, M.D., Director of Preventable Diseases, Connecticut State Department of Health; Dr. John B. Atwater, Director, New Haven Department of Health; and teams from the Division of Environmental Engineering and Food Protection, and the Communicable Disease Center).

INFLUENZA-LIKE DISEASE

Outbreaks of influenza-like disease have recently been reported from communities in northwestern Washington, from nearby areas on Vancouver Island, British Columbia, and from several areas in the Orient, notably Japan and Taiwan. The epidemic in Washington is the first to have been noted in the U.S. this year. Preliminary data on these outbreaks are as follows:

Washington State

An outbreak of acute febrile respiratory disease, clinically compatible with influenza, has recently been observed among residents of Skagit County in northwestern Washington.

Physicians in the area first reported seeing cases in mid-January. They described a syndrome characterized by fever (reaching 103-40°F in severe cases), dry cough, sore throat, myalgia, and eye pain lasting 3-4 days, followed by a period of fatigue and lassitude lasting several more days. No deaths have been reported.

Most severely affected has been the town of Concrete (pop. 840) where elementary and high-school absenteeism reached peak levels of 17-21% during late January, as compared to usual rates of 5-7%. Practitioners in the neighboring communities of Sedro Woolley and Mount Vernon were also seeing an increasing case load of flu-like illness, but absenteeism in school and industry has remained at normal levels in these areas. Adjacent counties have reported only scattered cases thus far. In particular, the Seattle-King County area, lying about 65 miles south of Skagit County, reports no evidence of epidemic activity.

Throat washings and sera have been obtained from selected patients in Skagit County and are currently being processed at the State laboratories in Seattle as well as at the Respiratory Laboratory, CDC.

The Skagit County outbreak followed by a brief period a similar epidemic illness on Vancouver Island, British Columbia. The southern end of the island lies due west of Skagit County. (See below for details of Canadian outbreaks.)

In an effort to obtain additional epidemiologic data, a telephone survey was undertaken in the town of Concrete on February 2. A random sample was obtained by selecting every fifth entry in the local telephone directory. Interviews were completed in 40 households, providing information on 121 individuals (approximately 14% of the total population). One adult member of the household usually provided data for all those residing in the household. A standard set of questions was asked at each

AGE-SPECIFIC ATTACK RATES - PHONE SURVEY
CONCRETE, WASHINGTON

Age Group	No. in Sample	Cases in Sample	Attack Rate for Sample (percent)
0-4	17	1	6
5-14	18	4	22
15-24	14	4	29
25-34	14	1	7
35-49	26	8	31
50-64	15	1	7
65+	17	0	0
Total	121	19	16

interview regarding age and sex of all household members, and pertinent clinical data for household members who had been ill during the epidemic. A total of 19 cases were discovered in this sample, giving an overall attack rate of 16%. Age specific attack rates, and a quantitative summary of the symptom complex are given in the accompanying tables.

**SYMPTOMS OF INFLUENZA-LIKE ILLNESS - PHONE SURVEY
CONCRETE, WASHINGTON - FEBRUARY 2, 1964**

Symptom	Number	Percent
Feverishness	19	100
Weakness or malaise	18	95
Headache	15	79
Cough	13	68
Chills	10	53
Myalgia	10	53
Sore throat	9	47
Eye symptoms	7	37
Nausea	6	32
Vomiting	2	11
Diarrhea	0	0

Total No. of Cases - 19

In addition, increased school absenteeism has been observed in scattered areas of Whatcom County, which is adjacent to the north border of Skagit County. Investigations are underway to determine the significance of this increase.

(Reported by Ernest A. Ager, M.D., Chief, Division of Epidemiology, State Department of Health, Olympia, Washington; Richard Gross, M.D., Skagit County Health Officer, Mount Vernon, Washington; and a team from the Communicable Disease Center.)

TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending February 1 was 12,954 as compared with an expected weekly average of 12,413.

	Week Ending				4 Week Total	Weekly Average
	1/11	1/18	1/25	2/1		
Observed	13,851	12,704	12,992	12,269	51,816	12,954
Expected	12,425	12,432	12,415	12,381	49,653	12,413
Excess	1,426	272	577	-112	2,163	541

The reported numbers of deaths from all causes were elevated in early January but declined to slightly below expected numbers during the last week of the period. During the first week of the period, highest weekly totals were reported by the East North Central, West North Central, South Atlantic, East South Central, West South Central and Pacific States; during the second week by the New England States; during the third week by the Middle Atlantic

Canada

Epidemic respiratory disease with symptoms typical of influenza has been reported from the community of Lantzville in central Vancouver Island. Peak incidence occurred in mid-January with an estimated 1,000 cases reported during the week ending January 17. Pneumonitis has complicated many of the cases. One death, in a 14-year-old boy, has been reported.

Earlier outbreaks of a similar illness were reported in December from several small villages in the Northwest Territories. The towns of Gjoa Haven, Pelly Bay, and Stence Bay accounted for an estimated 100-150 cases.

(Reported by Dr. E. W. R. Best, Chief, Epidemiology Division, Department of National Health & Welfare, Ottawa, Canada.)

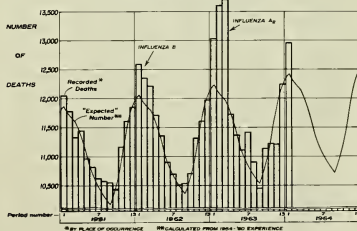
Taiwan

A severe respiratory disease epidemic is currently in progress on Taiwan with most extensive involvement apparently in the city of Taipei. The outbreak reached its peak in mid-January, and now appears to be waning, although an increasing number of cases are now being reported among American residents. Attack rates were estimated as high as 50 percent among children at the height of the epidemic. Of the 300 U.S. Naval personnel attached to the Naval Medical Research Unit No. 2 in Taipei, approximately 100 have contracted the illness thus far. Confirmatory laboratory studies and additional epidemiologic investigations are currently in progress.

(Continued on page 44)

States; and during the fourth week by the Mountain States. During the fourth week of the period all divisions except the Mountain declined from their earlier elevated figures.

TOTAL DEATHS RECORDED IN 108 U.S. CITIES
Average Number per Week by Four-Week Periods



(See Table, page 43)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

FEBRUARY 1, 1964 AND FEBRUARY 2, 1963 (5th WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
			Primary	Post-Inf.								
	1964	1963	1964	1964	1964	1963	Cumulative		1964	1963	Cumulative	
							1964	1963			1964	1963
UNITED STATES...	18	25	12	21	-	4	3	19	-	3	2	16
NEW ENGLAND.....	1	1	2	1	-	-	-	-	-	-	-	-
Maine.....	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	1	1	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	-	-	1	1	-	-	-	-	-	-	-	-
Connecticut.....	-	-	1	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	2	-	5	1	-	1	-	2	-	1	-	2
New York City.....	-	-	4	-	-	-	-	-	-	-	-	-
New York, Up-State.....	1	-	-	1	-	1	-	1	-	1	-	1
New Jersey.....	1	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania.....	-	-	1	-	-	-	-	1	-	-	-	1
EAST NORTH CENTRAL...	1	2	-	5	-	1	-	7	-	-	-	5
Ohio.....	-	-	-	-	-	-	-	2	-	-	-	1
Indiana.....	-	-	-	1	-	-	-	-	-	-	-	-
Illinois.....	-	2	-	3	-	1	-	5	-	-	-	4
Michigan.....	1	-	-	1	-	-	-	-	-	-	-	-
Wisconsin.....	-	-	-	-	-	-	-	-	-	-	-	-
WEST NORTH CENTRAL...	1	1	2	1	-	-	-	1	-	-	-	1
Minnesota.....	-	1	-	-	-	-	-	1	-	-	-	1
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	2	1	-	-	-	-	-	-	-	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	1	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	4	2	2	3	-	1	3	1	-	1	2	1
Delaware.....	2	1	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	-	1	-	-	-	-	-	-	-	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	1	-	2	-	-	-	-	-	-	-	-
West Virginia.....	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina.....	-	-	1	-	-	1	1	1	-	1	-	1
South Carolina.....	-	-	-	-	-	-	-	-	-	-	-	-
Georgia.....	-	-	-	-	-	-	-	-	-	-	-	-
Florida.....	2	-	1	-	-	-	2	-	-	-	2	-
EAST SOUTH CENTRAL...	2	2	-	6	-	-	-	1	-	-	-	-
Kentucky.....	1	2	-	5	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	1	-	-	-	-	-	-	-	-
Alabama.....	1	-	-	-	-	-	-	1	-	-	-	-
Mississippi.....	-	-	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	2	-	-	-	-	1	-	5	-	1	-	5
Arkansas.....	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana.....	-	-	-	-	-	1	-	5	-	1	-	5
Oklahoma.....	-	-	-	-	-	-	-	-	-	-	-	-
Texas.....	2	-	-	-	-	-	-	-	-	-	-	-
MOUNTAIN.....	4	10	-	-	-	-	-	-	-	-	-	-
Montana.....	-	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	4	8	-	-	-	-	-	-	-	-	-	-
New Mexico.....	-	-	-	-	-	-	-	-	-	-	-	-
Arizona.....	-	-	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	2	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	1	7	1	4	-	-	-	2	-	-	-	2
Washington.....	-	-	-	-	-	-	-	-	-	-	-	-
Oregon.....	-	-	-	-	-	-	-	-	-	-	-	-
California.....	1	7	1	3	-	-	-	2	-	-	-	2
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	---	-	---	---	---	-	-	-	---	-	-	-

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 1, 1964 AND

FEBRUARY 2, 1963 (5th WEEK) - Continued

Area	Brucellosis		Diphtheria		Infectious Hepatitis Including Serum Hepatitis						Typhoid Fever	
	1964	Cum.	1964	Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative		1964	Cum.
		1964		1964	1964	1964	1964	1964	1963	1964		
UNITED STATES...	8	26	4	21	927	505	344	78	4,371	5,321	8	26
NEW ENGLAND.....	-	-	-	1	89	47	36	6	560	705	1	1
Maine.....	-	-	-	-	32	19	11	2	226	335	-	-
New Hampshire.....	-	-	-	-	8	4	3	1	63	57	-	-
Vermont.....	-	-	-	-	8	4	3	1	59	13	-	-
Massachusetts.....	-	-	-	1	22	13	8	1	105	207	-	-
Rhode Island.....	-	-	-	-	4	2	2	-	22	26	1	1
Connecticut.....	-	-	-	-	15	5	9	1	85	67	-	-
MIDDLE ATLANTIC.....	-	-	-	4	219	122	97	-	996	1,007	-	3
New York City.....	-	-	-	1	26	6	20	-	139	118	-	1
New York, Up-State.....	-	-	-	-	115	80	35	-	487	451	-	1
New Jersey.....	-	-	-	2	30	13	17	-	144	140	-	-
Pennsylvania.....	-	-	-	1	48	23	25	-	226	298	-	1
EAST NORTH CENTRAL...	1	1	-	1	117	65	46	6	578	783	-	2
Ohio.....	-	-	-	-	2	1	1	-	138	261	-	1
Indiana.....	-	-	-	-	17	7	8	2	45	41	-	-
Illinois.....	1	1	-	1	22	10	11	1	69	113	-	1
Michigan.....	-	-	-	-	71	45	26	-	299	332	-	-
Wisconsin.....	-	-	-	-	5	2	-	3	27	36	-	-
WEST NORTH CENTRAL...	2	15	2	6	60	35	12	13	263	258	-	-
Minnesota.....	-	-	-	-	6	2	4	-	15	50	-	-
Iowa.....	-	7	-	-	11	7	4	-	40	45	-	-
Missouri.....	-	3	-	-	7	4	2	1	55	106	-	-
North Dakota.....	-	-	-	-	4	2	2	-	17	4	-	-
South Dakota.....	1	4	-	-	4	3	-	1	17	8	-	-
Nebraska.....	1	1	-	-	-	-	-	-	7	16	-	-
Kansas.....	-	-	2	6	28	17	-	11	112	29	-	-
SOUTH ATLANTIC.....	-	1	1	3	109	72	31	6	425	639	5	12
Delaware.....	-	-	-	-	1	1	-	-	3	6	-	-
Maryland.....	-	-	-	-	23	17	4	2	79	50	-	-
Dist. of Columbia.....	-	-	-	-	-	-	-	-	3	24	-	-
Virginia.....	-	-	-	-	12	5	4	3	49	191	-	-
West Virginia.....	-	-	-	-	16	15	1	-	68	90	-	-
North Carolina.....	-	1	-	-	37	27	10	-	102	180	4	8
South Carolina.....	-	-	-	1	6	-	5	1	14	23	-	1
Georgia.....	-	-	-	-	3	2	1	-	9	17	-	-
Florida.....	-	-	1	2	11	5	6	-	98	58	1	3
EAST SOUTH CENTRAL...	-	-	-	1	66	48	7	11	308	578	1	4
Kentucky.....	-	-	-	-	37	24	2	11	150	186	-	1
Tennessee.....	-	-	-	1	21	19	2	-	100	227	-	2
Alabama.....	-	-	-	-	5	3	2	-	40	73	1	1
Mississippi.....	-	-	-	-	3	2	1	-	18	92	-	-
WEST SOUTH CENTRAL...	1	3	-	2	77	49	27	1	275	332	1	1
Arkansas.....	-	1	-	-	21	17	4	-	45	42	-	-
Louisiana.....	-	1	-	2	21	12	9	-	43	41	-	-
Oklahoma.....	1	1	-	-	-	-	-	-	15	19	1	1
Texas.....	-	-	-	-	35	20	14	1	172	230	-	-
MOUNTAIN.....	4	5	-	-	58	9	14	35	299	417	-	-
Montana.....	-	-	-	-	11	3	4	4	30	71	-	-
Idaho.....	-	-	-	-	6	-	-	6	22	49	-	-
Wyoming.....	-	-	-	-	-	-	-	-	3	4	-	-
Colorado.....	-	-	-	-	15	1	3	11	66	102	-	-
New Mexico.....	1	1	-	-	9	4	5	-	68	44	-	-
Arizona.....	1	1	-	-	13	-	-	13	62	90	-	-
Utah.....	2	3	-	-	4	1	2	1	42	52	-	-
Nevada.....	-	-	-	-	-	-	-	-	6	5	-	-
PACIFIC.....	-	1	1	3	132	58	74	-	667	602	-	3
Washington.....	-	-	1	3	7	4	3	-	82	78	-	-
Oregon.....	-	-	-	-	9	2	7	-	60	97	-	-
California.....	-	1	-	-	104	44	60	-	484	412	-	3
Alaska.....	-	-	-	-	10	7	3	-	31	9	-	-
Hawaii.....	-	-	-	-	2	1	1	-	10	6	-	-
Puerto Rico	---	-	---	1	---	---	---	---	4	22	---	1

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
FEBRUARY 1, 1964 AND FEBRUARY 2, 1963 (5th WEEK) - Continued

Area	Measles	Meningococcal Meningitis				Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
		Cumulative				1964	1963	1964	Cum. 1964	1964	Cum. 1964	1964	Cum. 1964
		1964	1964	1964	1963								
UNITED STATES...	6,470	60	250	267	10,097	9,098		4	24	3	39	74	318
NEW ENGLAND.....	605	2	8	22	1,212	960		-	-	-	-	-	1
Maine.....	59	-	-	3	173	26		-	-	-	-	-	-
New Hampshire.....	3	-	-	-	7	7		-	-	-	-	-	1
Vermont.....	167	-	-	1	22	56		-	-	-	-	-	-
Massachusetts.....	58	-	1	8	130	157		-	-	-	-	-	-
Rhode Island.....	39	2	2	3	100	125		-	-	-	-	-	-
Connecticut.....	279	-	5	7	780	589		-	-	-	-	-	-
MIDDLE ATLANTIC.....	1,447	7	37	34	442	664		-	-	-	-	1	13
New York City.....	602	1	7	5	35	46		-	-	-	-	-	-
New York, Up-State.....	229	1	13	7	232	259		-	-	-	-	1	12
New Jersey.....	331	1	5	7	71	162		-	-	-	-	-	-
Pennsylvania.....	285	4	12	15	104	197		-	-	-	-	-	1
EAST NORTH CENTRAL...	1,497	7	33	46	1,302	962		-	3	1	5	6	30
Ohio.....	206	-	10	14	241	117		-	1	-	1	5	20
Indiana.....	396	1	4	11	85	136		-	-	-	-	-	3
Illinois.....	335	3	7	4	170	108		-	1	1	2	-	3
Michigan.....	443	3	10	11	560	366		-	1	-	1	-	2
Wisconsin.....	117	-	2	6	246	235		-	-	-	1	1	2
WEST NORTH CENTRAL...	189	3	10	14	287	289		2	2	1	10	26	103
Minnesota.....	2	1	3	2	31	17		-	-	-	1	11	29
Iowa.....	88	-	-	-	93	123		-	-	-	1	3	31
Missouri.....	20	2	5	7	8	5		2	2	1	5	9	23
North Dakota.....	77	-	1	1	85	110		-	-	-	-	1	7
South Dakota.....	-	-	-	2	10	15		-	-	-	-	1	9
Nebraska.....	2	-	-	2	2	1		-	-	-	-	1	4
Kansas.....	NN	-	1	-	58	18		-	-	-	3	-	-
SOUTH ATLANTIC.....	778	15	66	62	860	765		1	10	-	5	9	49
Delaware.....	5	-	-	-	4	7		-	-	-	-	-	-
Maryland.....	150	4	9	7	46	50		-	-	-	-	-	-
Dist. of Columbia..	9	-	-	1	11	1		-	-	-	-	-	-
Virginia.....	155	1	6	11	213	272		-	-	-	3	8	38
West Virginia.....	234	-	4	6	298	152		-	-	-	-	1	1
North Carolina.....	40	-	8	10	55	61		-	3	-	-	-	1
South Carolina.....	127	5	12	5	67	61		-	2	-	-	-	-
Georgia.....	25	-	6	-	22	12		-	-	-	2	-	4
Florida.....	33	5	21	22	144	149		1	5	-	-	-	5
EAST SOUTH CENTRAL...	718	8	22	21	1,585	1,209		-	3	-	10	10	60
Kentucky.....	286	1	5	5	186	86		-	-	-	1	2	11
Tennessee.....	367	3	10	10	1,325	948		-	1	-	7	8	46
Alabama.....	7	4	6	3	17	57		-	2	-	2	-	3
Mississippi.....	58	-	1	3	57	118		-	-	-	-	-	-
WEST SOUTH CENTRAL...	24	4	19	28	849	1,007		-	3	1	8	15	45
Arkansas.....	19	1	4	2	12	52		-	-	-	1	6	13
Louisiana.....	3	3	13	7	6	17		-	3	-	-	2	3
Oklahoma.....	2	-	2	7	36	22		-	-	1	7	1	5
Texas.....	-	-	-	12	795	916		-	-	-	-	6	24
MOUNTAIN.....	324	1	15	7	2,132	1,715		-	-	-	1	4	9
Montana.....	68	-	-	-	59	55		-	-	-	-	-	-
Idaho.....	53	-	1	-	115	165		-	-	-	-	-	-
Wyoming.....	-	-	1	-	26	57		-	-	-	1	-	-
Colorado.....	55	-	6	2	954	804		-	-	-	-	-	-
New Mexico.....	-	-	5	-	700	365		-	-	-	-	3	5
Arizona.....	110	-	-	2	114	175		-	-	-	-	1	4
Utah.....	21	-	1	3	161	86		-	-	-	-	-	-
Nevada.....	17	1	1	-	3	8		-	-	-	-	-	-
PACIFIC.....	888	13	40	33	1,428	1,527		1	3	-	-	3	8
Washington.....	164	1	3	3	404	609		-	-	-	-	-	-
Oregon.....	112	-	-	2	41	43		-	-	-	-	-	-
California.....	604	11	34	25	958	847		1	3	-	-	3	8
Alaska.....	4	1	1	3	3	3		-	-	-	-	-	-
Hawaii.....	4	-	2	-	22	25		-	-	-	-	-	-
Puerto Rico	---	---	-	-	---	-		---	-	---	-	---	-

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	1/11/64	1/18/64	1/25/64	2/1/64		1/11/64	1/18/64	1/25/64	2/1/64
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.	258	325	272	271	Atlanta, Ga.	194	123	143	134
Bridgeport, Conn.	35	37	39	45	Baltimore, Md.	305	281	309	269
Cambridge, Mass.	31	36	33	27	Charlotte, N.C.	42	43	53	38
Fall River, Mass.	37	29	28	30	Jacksonville, Fla.	80	53	70	60
Hartford, Conn.	53	59	50	60	Miami, Fla.	91	89	118	102
Lowell, Mass.	40	26	28	29	Norfolk, Va.	96	45	52	48
Lynn, Mass.	30	22	32	37	Richmond, Va.	77	90	107	105
New Bedford, Mass.	38	32	33	23	Savannah, Ga.	38	52	40	32
New Haven, Conn.	50	46	67	38	St. Petersburg, Fla.	100	94	87	87
Providence, R.I.	61	78	52	57	Tampa, Fla.	110	88	57	100
Somerville, Mass.	20	13	11	9	Washington, D.C.	241	220	242	214
Springfield, Mass.	46	61	47	67	Wilmington, Del.	56	36	33	36
Waterbury, Conn.	31	28	25	36					
Worcester, Mass.	75	62	40	54					
MIDDLE ATLANTIC:					EAST SOUTH CENTRAL:				
Albany, N.Y.	45	39	53	43	Birmingham, Ala.	115	122	99	106
Allentown, Pa.	43	49	44	40	Chattanooga, Tenn.	56	65	66	40
Buffalo, N.Y.	161	149	154	144	Knoxville, Tenn.	55	49	60	37
Camden, N.J.	54	55	61	51	Louisville, Ky.	226	137	156	120
Elizabeth, N.J.	32	37	34	36	Memphis, Tenn.	171	170	156	123
Erie, Pa.	51	36	37	38	Mobile, Ala.	41	57	46	30
Jersey City, N.J.	76	82	76	62	Montgomery, Ala.	49	42	50	39
Newark, N.J.	139	81	168	91	Nashville, Tenn.	143	120	105	100
New York City, N.Y.	1,968	1,798	1,847	1,709					
Paterson, N.J.	49	40	37	48	WEST SOUTH CENTRAL:				
Philadelphia, Pa.	495	501	520	550	Austin, Tex.	45	50	62	42
Pittsburgh, Pa.	182	223	305	222	Baton Rouge, La.	61	44	37	36
Reading, Pa.	57	52	60	57	Corpus Christi, Tex.	43	21	21	34
Rochester, N.Y.	114	89	99	99	Dallas, Tex.	194	120	198	146
Schenectady, N.Y.	36	38	34	19	El Paso, Tex.	59	50	47	44
Scranton, Pa.	40	26	42	48	Fort Worth, Tex.	77	68	79	65
Syracuse, N.Y.	68	67	76	53	Houston, Tex.	210	271	265	217
Trenton, N.J.	53	54	60	49	Little Rock, Ark.	96	77	55	69
Utica, N.Y.	33	21	22	22	New Orleans, La.	184	195	194	171
Yonkers, N.Y.	37	34	37	27	Oklahoma City, Okla.	108	95	96	97
					San Antonio, Tex.	171	140	115	118
					Shreveport, La.	55	74	40	73
					Tulsa, Okla.	59	81	58	76
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.	64	63	56	55	Albuquerque, N. Mex.	27	34	41	35
Canton, Ohio.	31	36	30	35	Colorado Springs, Colo.	20	20	32	30
Chicago, Ill.	876	750	783	731	Denver, Colo.	125	156	115	144
Cincinnati, Ohio.	211	184	166	166	Ogden, Utah.	18	17	21	19
Cleveland, Ohio.	248	208	230	231	Phoenix, Ariz.	110	108	120	107
Columbus, Ohio.	133	135	115	144	Pueblo, Colo.	23	16	18	17
Dayton, Ohio.	91	81	85	92	Salt Lake City, Utah.	43	37	54	68
Detroit, Mich.	421	330	371	356	Tucson, Ariz.	60	39	50	59
Evansville, Ind.	49	41	39	32					
Flint, Mich.	37	50	35	52	PACIFIC:				
Fort Wayne, Ind.	58	43	40	31	Berkeley, Calif.	16	31	14	16
Gary, Ind.	37	19	36	36	Fresno, Calif.	45	56	68	54
Grand Rapids, Mich.	51	51	48	61	Glendale, Calif.	25	55	48	35
Indianapolis, Ind.	185	158	160	181	Honolulu, Hawaii.	47	45	45	50
Madison, Wis.	52	32	33	27	Long Beach, Calif.	57	80	66	61
Milwaukee, Wis.	154	126	136	130	Los Angeles, Calif.	565	544	574	631
Peoria, Ill.	26	38	32	27	Oakland, Calif.	94	104	95	96
Rockford, Ill.	33	25	27	26	Pasadena, Calif.	44	31	39	39
South Bend, Ind.	45	60	47	31	Portland, Oreg.	151	144	129	141
Toledo, Ohio.	144	124	96	117	Sacramento, Calif.	86	74	69	62
Youngstown, Ohio.	76	61	62	55	San Diego, Calif.	112	114	126	107
					San Francisco, Calif.	257	192	203	184
WEST NORTH CENTRAL:					San Jose, Calif.	33	48	22	47
Des Moines, Iowa.	60	80*	72*	66	Seattle, Wash.	168	150	176	150
Duluth, Minn.	34*	30*	30*	27*	Spokane, Wash.	53	50	46	57
Kansas City, Kans.	58	40	39	44	Tacoma, Wash.	62	45	42	41
Kansas City, Mo.	157	153	145	141					
Lincoln, Nebr.	55	20	24	25	San Juan, P.R.	19	21	22	(---)
Minneapolis, Minn.	147	148	127	110					
Omaha, Nebr.	90	69	76	64					
St. Louis, Mo.	329	246	312	252					
St. Paul, Minn.	89	73	68	71					
Wichita, Kans.	36	79	66	48					

^oCurrent Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages.	12,269
4(B) Pneumonia-Influenza Deaths, all ages.	590
4(C) Total Deaths under 1 Year of Age.	768
4(D) Total Deaths, Persons 65 years and over.	6,878

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

Morbidity and Mortality Weekly Report

This epidemic is of particular interest in light of a previous institutional outbreak in Taiwan in October 1962. Influenza B strains recovered at that time were found to be antigenically distinct from former B isolates. No additional recoveries of that strain have since been made.

(Reported by Capt. Robert Phillips, MC, USN, Officer in Charge, U.S. Naval Medical Research Unit No. 2, Taipei; and Capt. Jack W. Millar, MC, USN, Director, Preventive Medicine Division, Department of the Navy.)

Japan

Extensive outbreaks of flu-like illness have recently been noted on the island of Kyushu, Japan, where an estimated 60,000 cases have occurred through January 31. The illness has been characterized by headache, fever, cough, and sore throat. Five of the island's seven Prefectures have been involved thus far, with increased absenteeism reported from about 50 schools, largely at the grade school level. Most severely affected have been the Prefectures of Saga and Miyazaki. There has been no evidence of disease spread beyond the island of Kyushu, as yet. Laboratory studies are in progress.

(Reported by Hideo Fukumi, M.D., Chief, Japanese Influenza Center, Tokyo.)

INTERNATIONAL NOTES - QUARANTINE MEASURES

Dengue Fever - Antigua

Antigua has become the third Caribbean Island to officially report the occurrence of dengue fever. For the period December 1, 1963, to January 20, 1964, 300 cases were notified.

(Reported in Weekly Epidemiological Report, Pan American Sanitary Bureau, 36:4, January 22, 1964.)

In addition to the established procedures for reporting morbidity and mortality, the Communicable Disease Center welcomes accounts of interesting outbreaks or cases. Such accounts should be addressed to:

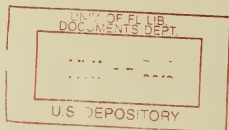
Lawrence K. Altman, M.D., Editor
Morbidity and Mortality Weekly Report
Communicable Disease Center
Atlanta, Georgia 30333

Notes: These provisional data are based on weekly telegrams to the Communicable Disease Center by the individual State health departments.

Symbols: --- Data not available

- Quantity zero

Procedures for construction of various mortality curves may be obtained from Statistics Section, Communicable Disease Center, Public Health Service, U. S. Department of Health, Education, and Welfare, Atlanta, Georgia 30333.



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